

## NPPTL COVID-19 Response: International Respirator Assessment

Manufacturer: Guangdong Kaper Protection Technology Co., Ltd.

Model Tested: KN95 Foldable Particulate Protection Mask

Date Tested: November 24, 2020

These findings pertain to the Guangdong Kaper Protection Technology Co., Ltd., model KN95 Foldable Particulate Protection Mask. The packaging for this product indicates that it meets GB2626-2006 (the Chinese standard for Respiratory Protective Equipment – Non-Powered Air-Purifying Particle Respirator) and EN149:2001+A1:2009 (the European standard for Respiratory Protective Devices – Filtering Half Masks to Protect Against Particles – Requirements, Testing, Marking).

Ten respirators were submitted for evaluation. The samples were tested using a modified version of NIOSH Standard Test Procedure (STP) TEB-APR-STP-0059. This modified assessment plan can be found [here](#).

No certificate of approval was provided with the samples received; therefore, the authenticity of the claims cannot be validated.

The maximum and minimum filter efficiency was 57.70% and 21.00%, respectively. All ten respirators measured less than 95%.

While the above-listed product classification has similar performance requirements to NIOSH-approved devices, NIOSH does not have knowledge about the sustained manufacturer quality system and product quality control for these products. NIOSH also does not have knowledge about the product's handling and exposures after leaving its manufacturer's control.

In addition, this product is an ear loop design. Currently, there are no NIOSH-approved products with ear loops; NIOSH-approved N95s have head bands. Furthermore, limited assessment of ear loop designs, indicate difficulty achieving a proper fit. While filter efficiency shows how well the filter media performs, users must ensure a proper fit is achieved.

**This assessment is not a part of the NIOSH respirator approval process and will in no way lead to or preclude NIOSH approval through the official approval process.** This assessment was developed as an assessment of the filter efficiency for those respirators represented as certified by an international certification authority, other than NIOSH, to support the availability of respiratory protection to US healthcare workers due to the respirator shortage associated with COVID-19. Only particulate filter efficiency was assessed.

The results provided in this letter are specific to the subset of samples that were provided to NPPTL for evaluation.

These results will be used to update the CDC guidance for [Crisis Capacity Strategies \(during known shortages\)](#).

## Evaluation of International Respirators

**Test:** Modified TEB-APR-STP-0059

**Date Tested:** November 24, 2020

**Report Prepared:** November 25, 2020

**Manufacturer:** Guangdong Kaper Protection Technology Co., Ltd.

**Item Tested:** KN95 Foldable Particulate Protection Mask

**Country of Certification:** China (GB2626-2006), European (EN149:2001+A1:2009)

Pictures have been added to the end of this report.

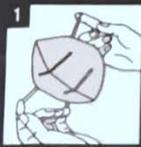
Filter	Flow Rate (LPM)	Initial Filter Resistance (mmH <sub>2</sub> O)	Initial Percent Leakage (%)	Maximum Percent Leakage (%)	Filter Efficiency (%)
1	85	4.2	75.6	75.6	24.40
2	85	4.1	75.9	77.2	22.80
3	85	5.7	42.3	42.3	57.70
4	85	4.6	74.6	74.6	25.40
5	85	5.4	46.4	46.7	53.30
6	85	3.2	76.3	76.3	23.70
7	85	4.1	77.1	77.1	22.90
8	85	4.0	77.8	79.0	21.00
9	85	2.9	77.5	77.5	22.50
10	85	5.7	46.1	46.1	53.90
<b>Minimum Filter Efficiency: 21.00%</b>			<b>Maximum Filter Efficiency: 57.70%</b>		

- The test method utilized in this assessment is not the NIOSH standard test procedure that is used for certification of respirators. Respirators assessed to this modified test plan do not meet the requirements of STP-0059, and therefore cannot be considered equivalent to N95 respirators that were tested to STP-0059.
- Respirators tested may not be representative of all respirators with the same certification mark. NIOSH has no control over suppliers and distributors of respirators certified by other national or international parties.
- This assessment is not a confirmation that it conforms with any or all of its specifications in accordance with its certification mark.
- This assessment was not a part of the NIOSH approval program. These results do not imply nor preclude a future approval through the NIOSH respirator approval program.





# HOW TO USE 正确使用



1. Facing the face of the mask without nose clip, hold one ear band with both hands, so that the nose clip is located above the mask.
2. Put the mask over your chin.
3. After pulling the ear strap to the ear, adjust the ear strap to feel as comfortable as possible.
4. Place both hands and fingers in the middle of the metal nose clip, while pressing inward, move the fingertips along the nose clip to both sides until the nose clip is completely pressed into the shape of the nose bridge. Pinching the nose clip with one hand may affect the tightness of the mask.
5. Before entering the work area, the user must check the tightness between the mask and the face:
  - a) Cover the mask with both hands to avoid affecting the position of the mask on the face.
  - b) If the mask has no exhalation valve, exhale rapidly; if the mask has exhalation valve, inhale rapidly.
  - c) If the air leaks from the bridge of the nose, readjust the nose clamp according to step 4; if the air leaks from the edge of the mask, readjust the headband; if the good sealing cannot be achieved, repeat steps 1-4.
  - d) If no leakage is felt, you can enter the work area to work.

1. 面向口罩无鼻夹的一面，两手各拉住一边耳带，使鼻夹位于口罩上方。
2. 用口罩抵住下巴。
3. 将耳带拉至耳后，调整耳带至感觉尽可能舒适。
4. 将双手手指置于金属鼻夹中部，一边向内按压一边顺着鼻夹向两侧移动指尖，直至将鼻夹完全按压成鼻梁形状为止。仅用单手捏口罩鼻夹可能会影响口罩的密合性。
5. 在进入工作区域之前，使用者必须检查口罩与脸部的密合性：
  - a) 用双手罩住口罩，避免影响口罩在脸上的位置。
  - b) 如口罩无呼气阀，快速呼气；如口罩带呼气阀，快速吸气。
  - c) 如空气从鼻梁处泄漏，应按步骤 4 重新调整鼻夹；如空气从口罩边缘泄漏，应重新调整头带；如不能取得良好的密合，应重复步骤 1-4。
  - d) 如没有感觉泄漏，可进入工作区工作。

It is important to air tightness.

形成良好的气密性非常重要。



## WARNING ⚠ 警告

This product is intended only for respiratory protection against certain particulate matter. Misuse can cause illness or even death. For the correct usage, please refer to the box instructions.

本产品只用于对某些颗粒物的呼吸防护。错误使用可导致疾病甚至死亡。欲了解正确使用方法，请参见包装盒说明。

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## 注意:

使用前, 佩戴者必须阅读并理解这些使用说明。请保存这些使用说明以便参考。参见制造商提供信息。

## 适用于:

防护在处理冶金行业、煤、铁矿石及含石英矿物过程中或加工棉花、面粉等其它物料过程中由机械力产生的, 在职业暴露限值10倍或根据当地法规规定的浓度以下的各种防尘和雾。特别适用于雾霾、PM2.5、病毒微生物、粉尘等呼吸道疾病防护。

## 不可用于:

喷漆和喷砂作业。不能防护有害气体或蒸气。本口罩不产生氧气, 不能在氧气浓度低于19.5%的环境下使用。不可用于存在油雾的环境。

## 使用限制和警告:

1. 在使用本防护口罩之前, 佩戴者应首先接受正确使用的培训和适合性检验。
2. 当污染物浓度达到立即危害生命或健康浓度时, 不可使用本防护口罩。
3. 当感觉呼吸困难、头晕或其他不适时, 应立即离开污染区域。
4. 当防护口罩破损或呼吸阻力变得过大时, 应更换新口罩。
5. 每次使用前检查防护口罩以确保其处于良好的工作状态。检测防护口罩的所有部件, 包括两根耳带、鼻夹和固定点, 看是否有损坏的迹象。
6. 不得改装、清洗、滥用或错误使用本防护口罩。
7. 若胡须、面部毛发或其它面部特征阻碍面部与口罩边缘取得良好密合, 不可使用本防护口罩。
8. 在适用的政府法规限制范围内使用。
9. 使用过程中未遵循使用说明和警告佩戴防护口罩, 并且或未能在暴露于污染物的整个过程中全程佩戴防护口罩, 将降低防护口罩的有效性, 并导致疾病, 或对健康造成永久性伤害。

## 储存条件和有效期:

未拆封产品在保证储存温度在-20°C至+30°C范围内, 相对湿度低于80%的条件下有效期为从生产之日起2年。

## Note:

The wearer must read and understand these instructions before use. Please save these instructions for reference. See manufacturer's information.

## Applies to:

Protection generated by mechanical forces in the metallurgical industry, coal, iron ore and quartz-containing minerals or in the processing of cotton, flour and other materials, each of which is 10 times the occupational exposure limit or below the concentration required by local regulations Kind of dust and fog. It is especially suitable for the protection of respiratory diseases such as smog, PM2.5, virus microorganisms, dust and so on.

## Not available for:

Painting and sandblasting operations. Does not protect against harmful gases or vapors. This mask does not generate oxygen and cannot be used in environments where the oxygen concentration is below 19.5%. Not for use in environments with oil mist.

## Restrictions and warnings:

1. Before using this protective mask, the wearer should first receive proper training and suitability inspection.
2. Do not use this protective mask when the concentration of pollutants reaches an immediate life-threatening or healthy concentration.
3. When you feel difficulty breathing, dizziness or other discomfort, you should leave the contaminated area immediately.
4. When the protective mask is damaged or the respiratory resistance becomes too large, it should be replaced with a new one.
5. Check the protective mask before each use to ensure that it is in good working condition. Inspect all parts of the protective mask, including the two ear bands, nose clips, and anchor points for signs of damage.
6. Do not modify, clean, abuse or misuse this protective mask.
7. If the beard, facial hair or other facial features prevent the face and the edge of the mask from getting a good fit, do not use this protective mask.
8. Use within the limits of applicable government regulations.
9. Failure to follow the instructions and warnings when wearing a protective mask during use, or failing to wear a protective mask throughout the entire process of exposure to pollutants, will reduce the effectiveness of the protective mask and cause disease or cause permanent harm to health.

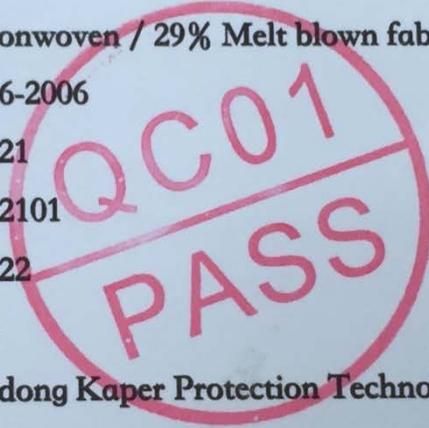
## Recommended storage and Validity:

The unopened product is valid for 2 years from the date of production under the condition that the storage temperature is within the range of -20 °C to + 30 °C and the relative humidity is less than 80%.



# CERTIFICATE

[Product name]	KN95 Foldable particulate protection mask
[Product type]	Non-air valve, Ear-wearing
[Specification]	15.5*10.5cm, 30Pcs
[Brand name]	Megaclean
[Main ingredients]	71% Nonwoven / 29% Melt blown fabrics
[Executive standard]	GB2626-2006
[Production date]	20200421
[Production batch]	2020042101
[Inspection Date]	20200422
[Valid Date]	2 years
[Manufacturer]	Guangdong Kaper Protection Technology Co., Ltd
[Address]	2F, No. 115 Xinghuazhong Road, Xiaoli Community, Dongfeng Town, Zhongshan City (License address)
[Brand Owner]	Guangdong Jingzhaoda Health Technology Co., Ltd



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